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ATTORNEY DOCKET NO. S0001-009002

Customer No. 26, 653

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: E. Neil Lewis et al.

Examiner: Lavarias

Serial No.: 09/788,316

Art Unit: 2872

Filed: February 16, 2001

Title: MULTI-SOURCE SPECTROMETRY

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**CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8(a)**

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Kristofer E. Elbing

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Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**REPLY**

These remarks are in reply to the Office Action mailed April 13, 2007.

**Independent Claim 1**

The invention as now presented in claim 1 relates to a chemical imaging spectrometer in which a first illumination source and a two-dimensional infrared image detector are each on a same side of a detection area. This defines a first reflecting angular path, which goes from the first illumination source to the detection area, and then continues on to the two-dimensional infrared image detector. A second illumination source in the array is also on the same side of the detection area, and this similarly defines a second, different reflecting angular path, which goes from the second illumination source to the detection area, and then continues on to the two-dimensional infrared image detector.